POWER SUPPLY

CITIZEN model CDC-312 is a dual-powered (high power solar + back-up battery) calculator operative under any lighting conditions.

-Auto power-off function-

The calculator switches the power off automatically if there has been no key entry for about 8 minutes.

-Battery change-

Remove the screw and the battery cover. Install a new battery with the + symbol facing upward. After changing battery, please use a pointed object to press the RESET hole near the battery. Replace the battery cover and secure the screw.

KEY INDEX

[ON/C] : Power on / Clear key [CE] : Clear entry

[→] : Shift-back key [+/–] : ±Sign change key

[GT] : Grand total key

[M+] : Memory plus key [M–] : Memory minus key

[MRC] : Memory recall key / Memory clear key

[⊖] : Universal currency key [LOCAL] : Local currency key

[$^{\text{STORE}}_{+\text{TAX}}$] : Price with tax key / To store tax rate when pressing [SET] and [+TAX] keys

[$^{\text{RECALL}}_{-\text{TAX}}$] : Price without tax key / To recall tax rate when pressing [SET] and [-TAX] keys

[SET] : Exchange rate setting key / Tax rate setting key

File name: D87_E_040830_B Date: 2004/8/30
Size: 9 x 12.6 cm

[SELL] [MARGIN] [COST] :
Used for calculating the cost, selling price and profit margin amount. Enter the value of any 2 items to obtain the balance item.

Decimal point selection switch
– **F** – : Floating decimal mode
– **0** –**2** – **3** – : Fixed decimal mode
– **A** –: ADD Mode -- Addition and subtraction calculations are preformed with an automatic 2-digit decimal so that decimal point entry is not required.

Round-up / Round-off / Round-down switch

THE SIGNS OF THE DISPLAY MEAN THE FOLLOWING:

M : Memory
– : Minus (or negative)
GT : Grand total
E : Overflow-error
COST : Cost
SELL : Selling price
MARGIN + % : Margin percentage
MARGIN : Margin (Selling price–Cost)
SET : Exchange rate or Tax rate setting
TAX + % : Tax rate stored
TAX : Amount of tax
+TAX : Price including tax
-TAX : Price excluding tax
LOCAL : Local currency
⛁ : Universal currency

File name: D87_E_040830_B Date: 2004/8/30
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1.Calculation Examples

Before performing each calculation, press the [ON/C] key.

Example	Mode selection	Key operation	Display
1 x 2 x 3 = 6		[ON/C] 1 [x] 2 [x] 3 [=] [ON/C]	0. GT 6. GT 0.
8 – 3 = 5 7 x 9 = 63		8 [+] [–] 3 [=] 7 [÷] [x] 9 [=]	GT 5. GT 63.
2 x 3 = 6		2 [x] 2 [CE] 3 [=]	GT 6.
2 + 4 + 6 = 12		2 [+] 3 [+] 6 [ON/C] 2 [+] 4 [+] 6 [=]	0. GT 12.

1234 x 100 = 123,400		12345 [➔] [x] 100 [=]	12’345. 1’234. GT 123’400.

$14.90 + $0.35 – $1.45 + $12.05 = $25.85		1490 [+] 35 [–] 145 [+] 1205 [=]	GT 25.85

File name: D87_E_040830_B Date: 2004/8/30

Size: 9 x 12.6 cm

5 x 3÷0.2 = 75		5 [x] 3 [÷] 0.2 [=]	GT 75.
8÷4 x3.7+9=16.4		8 [÷] 4 [x] 3.7 [+] 9 [=]	GT 16.4

300 x 27% = 81		300 [x] 27 [%]	GT 81.00
$\frac{11.2}{56}$ x 100% = 20%		11.2 [÷] 56 [%]	GT 20.00
300+(300x40%) =420		300 [+] 40 [%]	GT 420.00
300–(300x40%) =180		300 [–] 40 [%]	GT 180.00

5^4 = 625		5 [x] [=] [=] [=]	GT 625.00
1 / 2 = 0.5		2 [÷] [=]	GT 0.50
$\frac{1}{(2 \times 5 - 2)}$ = 0.125		2 [x] 5 [–] 2 [÷] [=]	GT 0.12

(–6) + 4 + 7.5 = 5.5		6 [+/–] [+] 4 [+] 7.5 [=]	GT 5.5
3 – 6 – 4 = –7		3 [–] 6 [–] 4 [=]	GT –7.

File name: D87_E_040830_B Date: 2004/8/30

Size: 9 x 12.6 cm

2.Memory Calculation

(12 x 4) – (20 ÷ 2) = 38		[ON/C]	0.
		12 [x] 4 [M+]	M 48.
		20 [÷] 2 [M–]	M 10.
		[MRC]	M 38.
		[MRC] [ON/C]	0.
15 x 2 = 30 20 x 3 = 60 25 x 4 = 100 (total A = 190) 150 ÷ 5 = 30 40 x 3 = 120 (total B = 150) A – B = 40		15 [x] 2 [M+]	M 30.
		20 [x] 3 [M+]	M 60.
		25 [x] 4 [M+]	M 100.
		150 [÷] 5 [M–]	M 30.
		40 [x] 3 [M–]	M 120.
		[MRC]	M 40.
		[MRC] [ON/C]	0.

File name: D87_E_040830_B Date: 2004/8/30

Size: 9 x 12.6 cm

3.Constant Calculation

3 x 4 = 12 3 x 6 = 18		3 [x] 4 [=]	GT 12.
		6 [=]	GT 18.
12 ÷ 4 = 3 24 ÷ 4 = 6		12 [÷] 4 [=]	GT 3.
		24 [=]	GT 6.
2 + 3 = 5 4 + 3 = 7		2 [+] 3 [=]	GT 5.
		4 [=]	GT 7.
3 – 2 = 1 2 – 2 = 0		3 [–] 2 [=]	GT 1.
		2 [=]	GT 0.

File name: D87_E_040830_B Date: 2004/8/30

Size: 9 x 12.6 cm

4.Overflow Error Clear

123456789012 x 100 = 123456789000	1234567890123 [➜] [x] 100 [=] [ON/C]	E 123'456'789'012. 123'456'789'012. E 12.3456789012 0.

File name: D87_E_040830_B Date: 2004/8/30

Size: 9 x 12.6 cm

5.GT-Memory

Pressing [GT] twice before you operate GT function.

20 + 10 = 30		[ON/C] 20 [+] 10 [=]	GT 30.
45 – 25 = 20		45 [–] 25 [=]	GT 20.
50 x 3 = 150		50 [x] 3 [=]	GT 150.
total = 200		[GT]	GT 200.
200 x 15% = 30	A 0 2 3 F	[x] 15 [%]	GT 30.
200+(200x15%) = 230		[GT]	GT 230.
		[GT]	230.
		[ON/C]	0.

● All calculation results are automatically accumulated in GT.

File name: D87_E_040830_B Date: 2004/8/30

Size: 9 x 12.6 cm

6.Tax Calculation

150+TAX(3%) =154.5 Tax sum = 4.5 Tax inclusive value = 154.5	 	3 [SET]	SET 3.00
		[+TAX]	TAX 3.00 % 3.00
		150 [+TAX]	TAX 4.50 3.00 % +TAX = 154.50
206–TAX(3%) =200 Tax sum = 6 Tax exclusive value = 200		[ON/C] [SET] [-TAX]	TAX 3.00 % 0.00
		206 [-TAX]	TAX 6.00 3.00 % –TAX = 200.00

File name: D87_E_040830_B Date: 2004/8/30

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7.Currency Exchange

USD : EURO = 1.2140 : 1 (LOCAL) (⛁) EURO 10 = USD 12.14 USD 25 = EURO 20.59	A 0 2 3 F • • • • •	[LOCAL] [SET] 1.2140	LOCAL 1. SET ⛁ 1. LOCAL = ≥1.2140 ≤
		[⛁] [SET] 1	LOCAL 1.2140 SET ⛁ 1. ⛁ = ≥1. ≤
		[SET] [ON/C] 10 [⛁] [LOCAL]	LOCAL 1.2140 ⛁ 1. LOCAL = 12.14
		25 [LOCAL] [⛁]	LOCAL 1.2140 ⛁ 1. ⛁ = 20.59

・It is not allowed to set the rate = 0

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8. Cost-Sell-Margin Calculation

Selling price : $1,000 Profit margin : 20% → Cost = 800 → Selling price-Cost = 200		1000 [SELL]	SELL 1000. 1000.
		20 [MARGIN]	SELL 100. MARGIN 20. % = 800.
		[MARGIN]	MARGIN 20. % = 200.
Cost : 100 Selling price : $125 → Profit margin = 20% → Selling price-Cost = 25		100 [COST]	COST 100. 100.
		125 [SELL]	COST 100. SELL 125. = 20. %
		[MARGIN]	MARGIN 20. % = 25.

File name: D87_E_040830_B Date: 2004/8/30

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